

1290001-008-AC

State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

RECEIVED-FPSC
13 APR -4 AM 9:50
COMMISSION
CLERK
POE
KD

DATE: April 3, 2013
TO: Ann Cole, Commission Clerk, Office of Commission Clerk
FROM: Phillip O. Ellis, Engineering Specialist III, Division of Engineering
 Kevin D. Dawkins, Engineering Specialist I, Division of Engineering
RE: 2013 Ten-Year Site Plan from City of Tallahassee Utilities

Attached is City of Tallahassee Utilities' 2013 Ten-Year Site Plan, submitted on April 1, 2013, consistent with Rule 25-22.071, Florida Administrative Code (F.A.C.). Please place this item in Docket No. 130000 – Undocketed Filings for 2013, as it relates to the annual undocketed staff Ten-Year Site Plan Review project.

If you have any additional questions, please contact me.

POE

Attachment

DOCUMENT NUMBER-DATE
01657 APR -4 2013
FPSC-COMMISSION CLERK

City Of Tallahassee

**Schedule 1
Existing Generating Facilities
As of December 31, 2012**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Plant	Unit No.	Location	Unit Type	Fuel Pri	Fuel Alt	Fuel Pri	Fuel Alt	Alt. Fuel Use	Commercial In-Service Month/Year	Expected Retirement Month/Year	Gen. Max. Nameplate (kW)	Net Capacity Summer (MW)	Net Capacity Winter (MW)
Sam O. Purdom	7	Wakulla	ST	NG	NA	PL	NA	[1]	6/66	12/13	50,000	48	48
	8		CC	NG	F02	PL	TK	[2, 3]	7/00	12/40	247,743	222	258 [8]
	GT-1 GT-2		GT	NG	F02	PL	TK	[2, 3]	12/63	10/15	15,000	10	10
								[2, 3]	5/64	10/15	15,000	10	10
											Plant Total	290	326
A. B. Hopkins	1	Leon	ST	NG	F06	PL	TK	[4]	5/71	3/20	75,000	76	78
	2		CC	NG	F02	PL	TK	[3]	6/08 [5]	Unknown	358,200 [6]	300	330 [8]
	GT-1		GT	NG	F02	PL	TK	[3]	2/70	3/15	16,320	12	14
	GT-2 GT-3 GT-4		GT	NG	F02	PL	TK	[3]	9/72	3/17	27,000	24	26
										Unknown	60,500	46	48
										Unknown	60,500	46	48
											Plant Total	504	544
C. H. Corn Hydro Station [7]	1	Leon/Gadsden	HY	WAT	WAT	WAT	WAT	NA	9/85	Unknown	4,440	0	0
	2		HY	WAT	WAT	WAT	WAT	NA	8/85	Unknown	4,440	0	0
	3		HY	WAT	WAT	WAT	WAT	NA	1/86	Unknown	3,430	0	0
											Plant Total	0	0
											Plant Total	0	0
											Total System Capacity as of December 31, 2012	794	870

Notes

- [1] Purdom Unit 7 is limited to natural gas fuel only.
- [2] Due to the Purdom facility-wide emissions caps, utilization of liquid fuel at this facility is limited.
- [3] The City maintains a minimum distillate fuel oil storage capacity equivalent to approximately 12 peak load days at the Purdom plant and approximately 21 peak load days at the Hopkins plant.
- [4] The City maintains a minimum residual fuel oil storage capacity equivalent to approximately 19 peak load days at the Hopkins plant.
- [5] Reflects the commercial operations date of Hopkins 2 repowered to a combined cycle generating unit with a new General Electric Frame 7A combustion turbine. The original commercial operations date of the existing steam turbine generator was October 1977.
- [6] Hopkins 2 nameplate rating is based on combustion turbine generator (CTG) nameplate and modeled steam turbine generator (STG) output in a 1x1 combined cycle (CC) configuration with supplemental duct firing.
- [7] Because the C. H. Corn hydroelectric generating units are effectively run-of-river (dependent upon rainfall, reservoir and downstream conditions), the City considers these units as "energy only" and not as dependable capacity for planning purposes.
- [8] Summer and winter ratings are based on 95 °F and 29 °F ambient temperature, respectively.

Table 1.1

City Of Tallahassee

**Schedule 8
Planned and Prospective Generating Facility Additions and Changes**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
<u>Plant Name</u>	<u>Unit No.</u>	<u>Location</u>	<u>Unit Type</u>	<u>Fuel Pri</u>	<u>Fuel Alt</u>	<u>Fuel Pri</u>	<u>Fuel Transport Alt</u>	<u>Const. Start Mo/Yr</u>	<u>Commercial In-Service Mo/Yr</u>	<u>Expected Retirement Mo/Yr</u>	<u>Gen. Max. Nameplate (kW)</u>	<u>Summer (MW)</u>	<u>Winter (MW)</u>	<u>Status</u>
Purdorn	7	Wakulla	ST	NG	NA	PL	NA	NA	6/66	12/13	50,000	-48	-48	RT
Hopkins	CT-1	Leon	GT	NG	DFO	PL	TK	NA	2/70	3/15	16,320	-12	-14	RT
Purdorn	CT-1	Wakulla	GT	NG	DFO	PL	TK	NA	12/63	10/15	15,000	-10	-10	RT
Purdorn	CT-2	Wakulla	GT	NG	DFO	PL	TK	NA	5/64	10/15	15,000	-10	-10	RT
Hopkins	CT-2	Leon	GT	NG	DFO	PL	TK	NA	9/72	3/17	27,000	-24	-26	RT
Hopkins	1	Leon	ST	NG	RFO	PL	TK	NA	5/71	3/20	75,000	-76	-78	RT
Hopkins	5 [1]	Leon	GT	NG	DFO	PL	TK	5/17	5/20	NA	50,000	46	48	P

[1] For the purposes of this report, the City has identified the addition of a GE LM 6000 combustion turbine generator (similar to the City's existing Hopkins CT3 and CT4) at its existing Hopkins Plant site. The timing, site, type and size of this new power supply resource may vary as the nature of the need becomes better defined. Alternatively, this proposed addition could be a generator(s) of a different type/size at the same or different location or a peak season purchase.

Acronyms

GT	Gas Turbine	Pri	Primary Fuel	kW	Kilowatts
ST	Steam Turbine	Alt	Alternate Fuel	MW	Megawatts
		NG	Natural Gas	RT	Existing generator scheduled for retirement
		DFO	Diesel Fuel Oil	P	Planned for installation but not utility authorized. Not under construction
		RFO	Residual Fuel Oil		
		PL	Pipeline		
		TK	Truck		

Table 3.3